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报告编号

Reference No

中国认可
国际互认
检测

TESTING
CNAS L0207

CT23-02169

检测报告

Test Report

样品名称

Name of sample

Caledonian Fire Resistant Fibre Optic OM2+ Cable

样品型号

Type of sample

MLA-5-1×6-FTH-J-FR

委托方

Consigner

Caledonian Cables Limited

试验类型

Kind of test

Commission Test



上海国缆检测股份有限公司

SHANGHAI NATIONAL CENTER OF TESTING AND INSPECTION FOR
ELECTRIC CABLE AND WIRE CO., LTD

Shanghai National Center of Testing and Inspection for Electric Cable and Wire Co., Ltd
Test Report

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Kind of test		Commission Test		Reference No.		CT23-02169	
Name of sample		Caledonian Fire Resistant Fibre Optic OM2+ Cable					
Type and Size		MLA-5-1×6-FTH-J-FR		Date of test		2023-5-30~2023-6-14	
Consigner	Name	Caledonian Cables Limited					
	Address	1/F., CMA Building, 64-66 Connaught Road Central, Hong Kong					
	Tel.	(852)2116-1238	P.C.	/	Unit No.	000266	
Manufacturer	Name	Caledonian Cables Limited					
	Address	1/F., CMA Building, 64-66 Connaught Road Central, Hong Kong					
	Tel.	(852)2116-1238	P.C.	/	Unit No.	000266	
Delivering mode		Supplied by consigner	Sample state at receiving	Normal	Receiving date	2023-5-23	
Test standard		Refer to BS 6387:2013 Test method for resistance to fire of cables required to maintain circuit integrity under fire conditions					
Verdict standard		Test requirements provided by consigner					
Conclusion		The item tested for the sample complies with the test requirements provided by consigner.					
Note		1. The name, type and size of sample were provided and responsible by consigner. 2. Test for fire resistance characteristics has been carried out at our test base - No.233, Zhenkang Road, Jinshan District, Shanghai.					
Tested by		Li Shiqi 李诗琦	Checked by	Xu Chen 徐晨	Approved by	Yu Jing 于晶	
Date		2023.6.20	Date	2023.6.20	Date	2023.6.20	

Type and size		MLA-5-1×6-FTH-J-FR		Reference No.	CT23-02169
No.	Test Items	Unit	Requirements	Test Results	Verdict
1	Test for fire resistance characteristics (1. Testing wavelength: 1300nm 2. All 6 fibers spliced into one optical loop for attenuation test)				
1.1	Resistance to fire alone- Category C (950°C, 180min)		1. Optical fiber cable should maintain circuit integrity: the flame shall be extinguished but the cable sample shall remain connected. 2. The maximum change of attenuation shall not exceed 3.5dB/fiber.	1. Optical fiber cable maintained circuit integrity: the flame was extinguished but the cable sample was remain connected. 2. The maximum change of attenuation was 3.24dB/fiber. (See Appendix 1)	P P
1.2	Resistance to fire with water spray-Category W (650°C, 15min+15min)		1. Optical fiber cable should maintain circuit integrity: the flame shall be extinguished but the cable sample shall remain connected. 2. The maximum change of attenuation shall not exceed 3.5dB/fiber.	1. Optical fiber cable maintained circuit integrity: the flame was extinguished but the cable sample was remain connected. 2. The maximum change of attenuation was 0.22dB/fiber. (See Appendix 1)	P P
1.3	Resistance to fire with mechanical shock-Category Z (950°C, 15min)		1. Optical fiber cable should maintain circuit integrity: the flame shall be extinguished but the cable sample shall remain connected. 2. The maximum change of attenuation shall not exceed 3.5dB/fiber.	1. Optical fiber cable maintained circuit integrity: the flame was extinguished but the cable sample was remain connected. 2. The maximum change of attenuation was 2.02dB/fiber. (See Appendix 1)	P P
End of Report					

Note: "P" means this item does meet the requirement, "F" means this item does not meet the requirement, "N" means this item does not require to the verdict.

Appendix 1

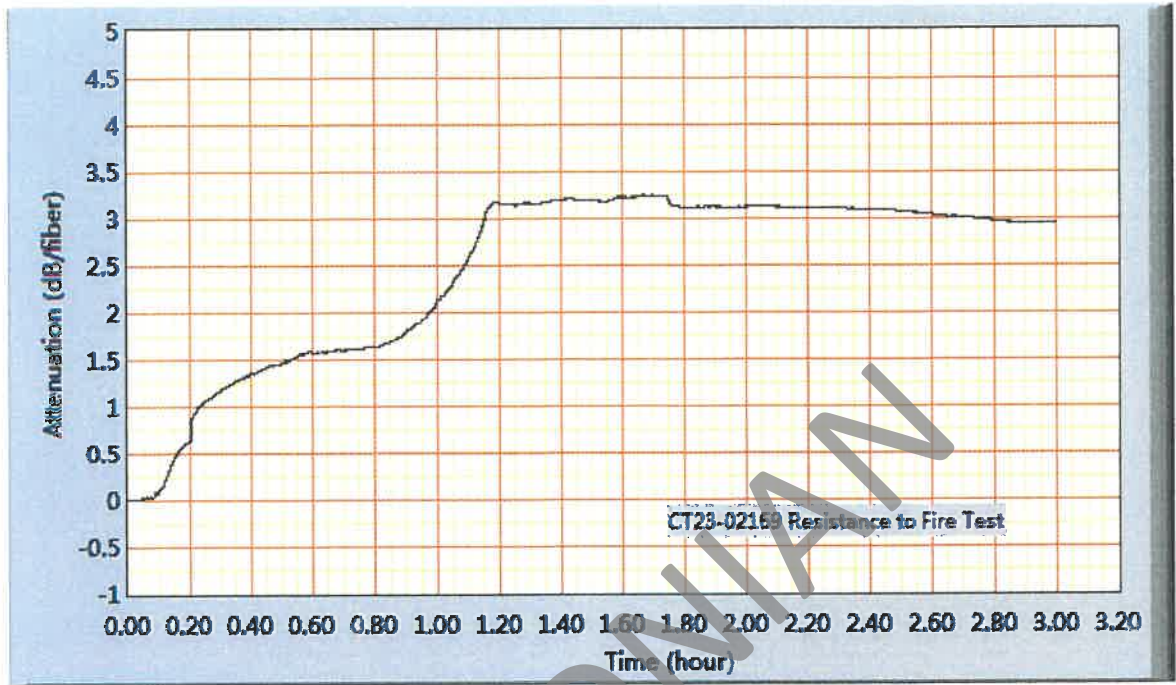


Figure 1-1: Fire Resistance Test - Circuit Integrity with flaming according to BS6387 Category C

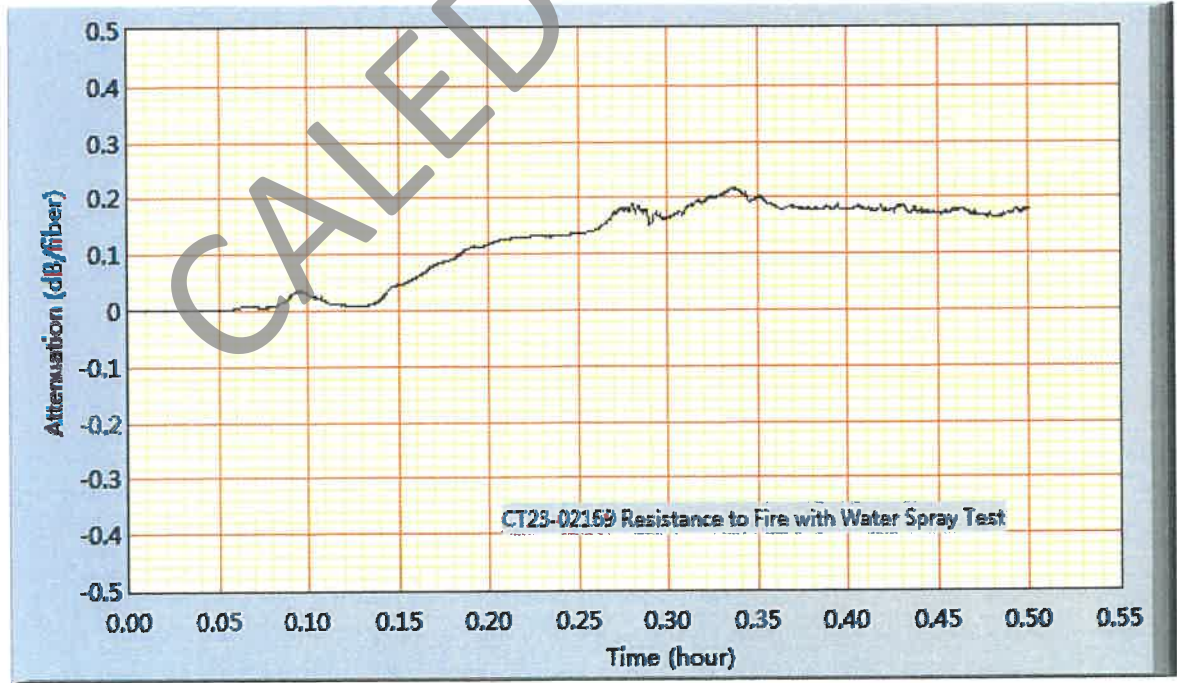


Figure 1-2: Fire Resistance Test - Circuit Integrity with flaming according to BS6387 Category W

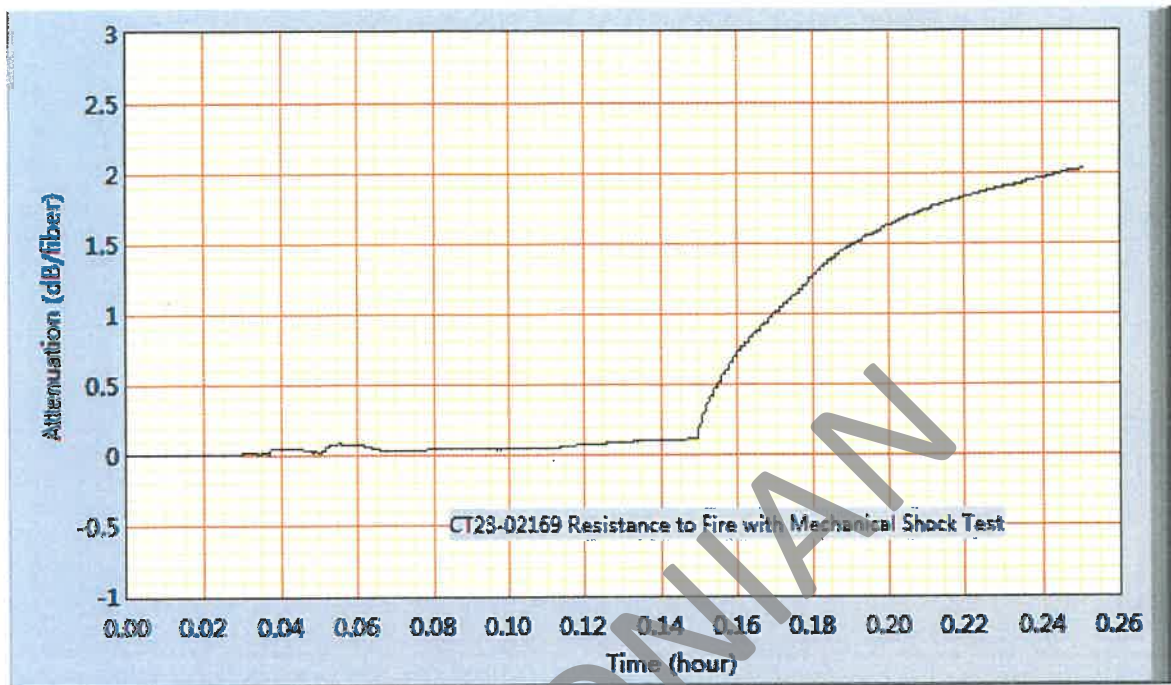


Figure 1-3: Fire Resistance Test - Circuit Integrity with flaming according to BS6387 Category Z